

Global Ammonia-13 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ammonia-13 market size is expected to reach \$ 288 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

In 2025, global Ammonia-13 production was approximately 18,000 grams, with a global average market price of around \$7,200 per gram. That year, total global production capacity for Ammonia-13 reached approximately 25,000 grams, and the industry's average gross profit margin stood at about 45%. Nitrogen-13 (^{13}N) is an artificial radioactive isotope with an atomic number of 7 and a mass number of 13. It is a proton-rich radionuclide mainly produced by cyclotrons through the nuclear reaction of oxygen-16 targets with protons ($^{16}\text{O}(p,?)^{13}\text{N}$). Nitrogen-13 has a short half-life of approximately 9.97 minutes and decays by positron emission (β^+ decay) into stable carbon-13 (^{13}C), producing 511 keV annihilation photons. Due to these characteristics, ^{13}N is widely used in positron emission tomography (PET). The most important clinical form is nitrogen-13 ammonia (^{13}N -Ammonia, ^{13}N -NH $_3$), which provides excellent myocardial uptake and blood-flow tracing capability and is considered a key PET radiopharmaceutical for myocardial perfusion imaging.

The upstream sector of the nitrogen-13 industry includes cyclotron equipment suppliers, oxygen-16 enriched water target suppliers, radiochemical synthesis systems, and quality-control equipment providers. Due to the extremely short half-life of nitrogen-13 (approximately 10 minutes), long-distance transportation is impractical. Therefore, ^{13}N production generally follows an on-site manufacturing model using medical cyclotrons located in hospitals, nuclear medicine centers, or radiopharmaceutical production facilities. Key upstream technologies include proton beam control, target system engineering, automated synthesis modules, and radiochemical quality management, requiring high equipment reliability and process precision. The midstream sector

focuses on the production, quality control, and clinical supply of nitrogen-13 ammonia (^{13}N -Ammonia) radiopharmaceuticals. After nitrogen-13 is generated by cyclotrons, it undergoes radiochemical synthesis to produce injectable ^{13}N -NH₃, followed by sterile filtration, radioactive activity measurement, chemical purity testing, and pharmaceutical validation. Due to its very short half-life, ^{13}N -Ammonia is typically produced on-site by hospitals or supplied through regional radiopharmaceutical centers rather than through conventional distribution networks. Major participants include nuclear medicine departments, PET imaging centers, hospital radiopharmacy units, and specialized radiopharmaceutical organizations. The downstream applications of nitrogen-13 are primarily concentrated in nuclear medicine diagnostics and biomedical research, with myocardial perfusion PET imaging being the most important application. ^{13}N -Ammonia enables quantitative evaluation of myocardial blood flow, supporting coronary artery disease diagnosis, myocardial flow reserve assessment, and cardiovascular risk evaluation. In addition, nitrogen-13 is used in brain function studies, metabolic research, and tracer-based biomedical experiments. With the expansion of PET/CT and PET/MRI systems, the growth of precision medicine, and increasing demand for cardiovascular diagnostics, nitrogen-13 ammonia continues to play an important role as a high-performance short-lived PET tracer.

The increasing global burden of cardiovascular diseases is driving demand for myocardial perfusion imaging and precision cardiovascular diagnostics. Nitrogen-13 ammonia (^{13}N -NH₃) offers advantages including high myocardial uptake, excellent image quality, and quantitative assessment of myocardial blood flow, making it one of the important PET tracers for cardiac imaging. With the growing need for early coronary artery disease detection, myocardial flow reserve evaluation, and personalized treatment, more medical institutions are adopting PET/CT and PET/MRI technologies, further enhancing the clinical value of ^{13}N -Ammonia.

Advancements in PET/CT and PET/MRI technologies are creating broader application opportunities for short-lived radioactive tracers. Due to its short half-life, ^{13}N -Ammonia can reduce patient radiation exposure while enabling rapid imaging and dynamic blood-flow assessment, aligning with the development of precision medicine. In the future, improvements in high-resolution PET systems, artificial intelligence-assisted image analysis, and quantitative PET technologies will further enhance the role of ^{13}N -Ammonia in cardiovascular risk prediction, treatment evaluation, and clinical research.

Because ^{13}N -Ammonia has an extremely short half-life of approximately 10 minutes, it cannot be distributed through conventional logistics networks. Its market development therefore relies heavily on medical cyclotron infrastructure and on-site

radiopharmaceutical production capabilities. In recent years, hospitals, nuclear medicine centers, and PET imaging facilities worldwide have expanded cyclotron installations, improving local ^{13}N -Ammonia production capacity. Meanwhile, advances in automated radiochemical synthesis systems and quality-control technologies are enhancing production efficiency, safety, and standardization, contributing to a more mature supply ecosystem.

Report Scope

This report studies the global Ammonia-13 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ammonia-13 and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ammonia-13 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ammonia-13 total production and demand, 2021-2032, (Gram)

Global Ammonia-13 total production value, 2021-2032, (USD Million)

Global Ammonia-13 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Ammonia-13 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Ammonia-13 domestic production, consumption, key domestic manufacturers and share

Global Ammonia-13 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Ammonia-13 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Ammonia-13 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Ammonia-13 market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ionetix, SOFIE, Spectron MRC LLC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ammonia-13 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Gram) and average price (US\$/g) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ammonia-13 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ammonia-13 Market, Segmentation by Type:

High Specific Activity

Low Specific Activity

Global Ammonia-13 Market, Segmentation by Preparation Method:

Cyclotron

Automated Synthesis Module

Research and Experimental

Global Ammonia-13 Market, Segmentation by Product Form:

Ammonia N-13 Injection

Ammonia N-13-labeled Tracer Preparation

Global Ammonia-13 Market, Segmentation by Production and Supply Model:

Hospital-produced Ammonia-13

Commercially supplied Ammonia-13

Global Ammonia-13 Market, Segmentation by Application:

Medical Imaging

Scientific Research

Companies Profiled:

Ionetix

SOFIE

Spectron MRC LLC

Key Questions Answered:

1. How big is the global Ammonia-13 market?
2. What is the demand of the global Ammonia-13 market?
3. What is the year over year growth of the global Ammonia-13 market?
4. What is the production and production value of the global Ammonia-13 market?
5. Who are the key producers in the global Ammonia-13 market?
6. What are the growth factors driving the market demand?

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